

CLIMATOLOGICAL DATA FOR OCTOBER, 1911.

DISTRICT NO. 1, NORTH ATLANTIC STATES.

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GENERAL SUMMARY.

The weather of October, 1911, may be described as chiefly a continuation of the favorable and pleasant conditions that were so noticeable during the preceding month. Ordinary temperatures prevailed on nearly all days, and the extremes were well within the October records for recent years. Over most of the immediate coast region of the district south of Connecticut killing frosts had not occurred at the close of the month, while in the greater part of the interior as far northward as central New York there were no damaging frosts or freezing temperatures until the 25th or later. The rainfall was abundant and in nearly all sections overcame the deficiency of September and earlier months, filling the streams and reservoirs to a desirable stage without causing extensive injury to soil by washing or damage to property by floods. The heaviest rains, occurring chiefly on or after the 18th, fortunately, were late enough to interfere but little with agricultural operations. The most interesting feature of the month was the heavy, rainfall of a period of nearly six days, beginning on the evening of the 17th and affecting chiefly the region near the middle coast of the district.

The following table presents the leading features of meteorological interest for the various sections of the district:

States or parts of States within district No. 1.	Temperature.				Precipitation.				Average number of—	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest total.	Least total.		
New England.....	48.6	-0.7	78	15	4.04	+0.52	9.58	1.54	11	13
New York.....	49.3	-0.7	82	12	5.19	+1.75	10.51	2.62	12	13
Pennsylvania.....	52.1	+0.5	83	18	4.47	+0.75	9.23	2.59	11	12
New Jersey.....	53.9	-0.1	80	18	5.49	+1.70	8.23	2.61	12	10
Maryland, Delaware, and District of Columbia.....	56.7	+1.0	85	30	3.25	+0.14	5.44	2.21	10	14
West Virginia.....	54.6	+1.4	87	23	4.25	+1.81	5.33	3.27	10	12
Virginia.....	56.9	+0.8	88	27	4.05	+0.19	6.60	2.48	9	11

TEMPERATURE.

The average temperature for the district was about 53°, being slightly above the normal but nearly 3° lower than the average for October of last year. There was a slight deficiency in the temperature at most stations in the Northern States, but from Pennsylvania southward

there was an excess averaging 1° or more daily and reaching 3° in some localities. The mean temperature in different sections showed a wide range, varying from 41.4° at Patten, Me., to 61.9° at Eastville, Va.

The number of days with marked abnormalities in temperature was unusually small, and there was a very gradual change, especially in the southern part of the district, from the warm weather at the beginning of the month to the lower, yet seasonable, temperatures that prevailed at its close. In New England and New York the variability of the weather was greater than elsewhere, as would be expected, and the highest temperatures did not occur uniformly within the first 10 days, as in the rest of the district, but were observed on several dates, chiefly the 9th, 10th, and 16th. In the southern half of the district the warmest weather came generally on the 4th.

The temperature remained somewhat above the normal most of the time until near the close of the second decade, after which the prevailing temperatures were generally below normal. The warmest weather of the month was of moderate character, there being few stations north of Maryland where a temperature as high as 80° was experienced, while in some localities the maximum temperature was even less than 70°. The highest temperature recorded in the district was 88° at Dale Enterprise, Va., on the 4th.

The coolest weather of the month, fortunately, did not occur until the 25th or later, the date of the lowest temperature in nearly all sections being the 29th. In a few of the colder localities frosts occurred on the 8th, 14th, and other dates earlier than the 20th, but there were practically no killing frosts in the southern States of the district nor in some parts of New York and New England until about the 28th; over some of the middle and southern coast regions there had been no killing frosts at the end of the month. Numerous observers in the interior commented on the freedom from frost until so late a date. In this respect the season was unusually favorable, except where frosts had caused damage on the 14th of September, but the loss occasioned then was probably more than counterbalanced on the whole by the more favorable conditions prevailing throughout September and October in other parts of the district.

The lowest temperature recorded in the district was 12° at Griffin Corners, N. Y., on the 29th. This is a low temperature for October, but appears to have been the result of conditions limited to a small area, as at nearly all other stations in the district the minimum temperatures were not so low as are often observed in this month.

PRECIPITATION.

The average precipitation for the district was about 4.40 inches, which is nearly 1 inch above the normal. There was practically no snow except in northern New York and New England. The greatest amount of snowfall reported for the month was 5 inches at Benton, N. H. The distribution of the precipitation was uneven and the dates of occurrence differed considerably in different States owing to the limited extent of three of the principal storms. The first of these, which occurred on the 1st and 2d, affected chiefly Pennsylvania and part of New Jersey, causing a downpour of 2 to 5 inches over large sections of these States. At Hamburg, Pa., 5.61 inches of rain fell between 1.30 p. m. of the 1st and 3 a. m. of the 2d. The next of these storms, which occurred on the 7th, caused heavy rains in the southern part of the district, exceeding 1 inch in some localities, but produced no effects over most of Maine and the northern parts of New Hampshire and Vermont. The third storm, affecting chiefly the middle portion of the district, began on the 17th and continued until the 19th. Like the two mentioned before, its center passed to the east near the New Jersey coast, bringing that region and adjacent sections under the influence of northeast winds with conditions favorable to unusually heavy rainfall. The precipitation resulting from this storm amounted to more than 4 inches in parts of New York, Connecticut, Massachusetts, and Vermont and was generally in excess of 2 inches over an extensive area including parts of these States and of Pennsylvania and New Jersey. At Canton, Conn., 6.64 inches of rain fell within 24 hours on the 18th-19th. The storm of the 18th was followed by a period of unsettled weather and another well-developed storm that slowly crossed the district on the 21st-23d. This prolonged the period of rainy weather, and precipitation occurred almost daily from the 18th to the 23d, inclusive, between Maryland and Massachusetts and on about four days of

this period over the rest of the district. In most sections more than half of the month's rainfall occurred within this period. In addition to the dates already given there was extensive rainfall on the 4th, 6th, 11th, 15th, 27th, and 31st.

RIVER CONDITIONS.

The heavy rainfall of the month was sufficient to fill the rivers of the central part of the district to higher stages than had occurred since last March or April. The average stages for the month in Pennsylvania were also higher than in any October since 1903 or 1904. Flood stages, however, were attained in only a few instances, chiefly along the upper course of the West Branch of the Susquehanna River on the 2d.

In the Hudson River and its tributaries the water during most of the month was much higher than usual in October, the average stages at Schenectady and Hoosick Falls being the highest for this month since the beginning of the records, about nine years ago. However, the streams were very low on the 1st of the month, the lowest stage on record for October at Trenton Falls, N. Y., being observed on that date. A marked rise in the streams was general from the 1st to the 4th or 5th and another from the 17th to the 24th.

SUNSHINE.

The percentage of sunshine was nearly normal, the average for 15 stations being 49. The percentage was only 40 at Block Island, but was 58 at Atlantic City, N. J., and Portland, Me., where the total amount of sunshine was greatest. The total sunshine for the month in hours averaged 168 and at different stations varied from 137 to 202. The number of days with 80 per cent or more of the possible sunshine averaged 11 and the number with 20 per cent or less, 10.

TABLE 1.—Climatological data for October, 1911. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Maine.																				
Bar Harbor.	Hancock.	20	25	48.4	+ 0.4	73	11	28	28	31	2.10	- 2.27	0.85	T.	7	16	4	11	sw.	William Miller.
Cornish.	York.	778	56	47.8	+ 0.3	77	12	19	29	42	2.99	- 1.27	.66	T.	12	15	4	12	w.	T. H. West.
Eastport.	Washington.	53	39	46.5	- 0.1	68	11	29	28	21	1.57	- 2.28	.85	0	8	5	12	14	nw.	U. S. Weather Bureau.
Fairfield.	Somerset.	90	26	46.8	- 0.3	72	11	23	29	37	1.68	- 0.98	.86	0	5	17	7	7	....	E. F. Parker.
Farmington.	Franklin.	450	14	46.2	- 1.4	78	11	18	29	47	3.68	- 0.26	.73	T.	10	12	9	10	nw.	State Normal School.
Gardiner.	Kennebec.	163	19	47.5	- 1.7	74	11	22	29	39	3.35	- 1.16	.86	0	10	15	5	11	se.	Samuel D. Soule.
Greenville.	Piscataquis.	1,000	7	43.4	.....	71	11	20	28	39	2.63	.....	.68	1.2	11	2	4	....	U. S. Weather Bureau.	
Houlton.	Aroostook.	363	9	42.9	.....	70	11	22	28	40	1.80	.....	.90	2.0	5	25	2	4	n.	Bangor & Aroostook R. R.
Lewiston.	Androscoggin.	185	37	49.0	+ 1.8	74	11	26	29	35	2.88	- 1.41	.64	0	12	14	7	10	n.	Union Water Power Co.
Madison.	Somerset.	257	8	44.4	.....	73	12	20	29	38	3.44	.....	1.32	T.	7	20	0	11	nw.	William Jardine.
Millinocket.	Penobscot.	386	8	44.3	.....	75	11	25	8	43	1.77	.....	.52	1.0	9	14	2	15	nw.	H. S. Ferguson.
North Bridgton.	Cumberland.	450	18	48.4	- 0.7	74	12	23	29	36	2.82	- 0.31	1.19	0	11	14	8	9	w.	G. E. Chadbourn.
Orono.	Penobscot.	129	42	46.7	+ 0.5	73	12	22	28	42	1.94	- 1.96	.67	T.	8	13	9	9	s.	Ag. Exp. Station.
Patten.	do.	550	9	41.4	.....	69	10	17	28	46	1.54	.....	.95	0.6	6	11	4	10	n.	Bangor & Aroostook R. R.
Portland.	Cumberland.	99	40	49.4	+ 0.3	71	12	28	29	26	1.85	- 1.81	.49	0	12	13	5	13	nw.	U. S. Weather Bureau.
Rumford Falls.	Oxford.	505	18	44.6	- 2.1	70	11	22	29	36	3.23	+ 0.39	1.24	0.5	9	19	4	8	nw.	Charles A. Mixer.
Winslow.	Kennebec.	90	16	47.8	.....	76	11	25	28	41	2.13	.....	1.01	T.	7	19	3	9	w.	Hollingsworth & Whitney Co.
New Hampshire.																				
Alstead Center.	Cheshire.	1,120	7	45.8	- 2.5	66	9	25	28	34	5.83	+ 2.87	1.50	2.5	13	17	2	12	nw.	Frank Dewing.
Benton.	Grafton.	2	43.4	.....	66	10	19	28	30	4.01	.....	1.26	5.0	8	13	6	12	nw.	State Sanatorium.	
Bethlehem.	do.	1,470	19	44.4	- 1.8	65	10	20	28	31	3.70	+ 0.60	1.10	4.0	13	11	9	9	w.	Benjamin Tucker.
Concord.	Merrimack.	350	51	47.1	- 1.6	70	16	23	29	36	3.73	+ 0.49	1.62	0.2	12	10	7	14	nw.	U. S. Weather Bureau.
Durham.	Stafford.	88	16	47.2	- 1.9	72	10	20	29	37	1.59	- 1.87	.44	0	8	15	4	11	ne.	Agr. Exp. Station.
Franklin.	Merrimack.	440	12	47.3	.....	74	16	18	29	40	5.20	.....	2.03	0.8	12	16	4	11	w.	Dr. C. P. Webster.
Grafton.	Grafton.	863	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. R. Kimball.	
Hanover.	do.	603	77	45.2	- 1.2	71	10	19	4	44	3.95	+ 1.37	1.70	0.9	11	12	9	10	sw.	Dartmouth College.
Keene.	Cheshire.	506	26	46.7	- 0.9	72	10	17	29	41	5.88	+ 2.53	1.63	0.5	12	12	7	12	nw.	Samuel Wadsworth.
Nashua.	Hillsboro.	125	26	48.7	- 0.2	71	12	25	29	36	3.66	+ 0.01	1.37	0	14	15	7	15	ne.	Jackson Company.
Newton.	Rockingham.	23	47.2	- 1.2	71	12	23	29	36	2.92	- 1.34	.70	0	11	11	10	10	nw.	W. C. Gale.	
Plymouth.	Grafton.	500	23	45.1	- 0.4	69	12	17	29	36	4.51	+ 1.12	1.09	T.	12	18	0	13	w.	Hattie G. Trow.
Vermont.																				
Bloomfield.	Essex.	4	44.0	.....	69	14	17	28	46	2.75	.....	.54	1.2	11	16	7	8	s.	Lyman Falls L. & P. Co.	
Cavendish.	Windsor.	910	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. A. Kingsbury.	
Chelsea.	Orange.	840	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. F. Dewey.	
Jacksonville.	Windham.	1,000	26	42.6	- 2.0	65	16	20	29	33	10.93	+ 6.43	2.93	4.3	10	15	3	13	nw.	Martha French.
Manchester.	Bennington.	950	12	47.0	.....	67	10	25	28	34	3.00	.....	1.13	T.	11	10	9	10	nw.	N. M. Canfield.
St. Johnsbury.	Caledonia.	711	18	45.6	- 0.8	69	10	19	29	33	3.58	+ 1.56	.87	T.	12	8	11	12	nw.	Fairbanks Museum.
Woodstock.	Windsor.	700	19	44.0	- 1.8	65	10	18	29	41	5.07	+ 2.53	.....	2.0	8	11	9	11	.....	John S. Eaton.
Massachusetts.																				
Amherst.	Hampshire.	222	22	49.0	0	72	9	24	29	38	8.81	+ 5.06	3.45	0	12	6	9	16	sw.	Agr. Exp. Station.
Blue Hill.	Norfolk.	640	27	49.6	+ 0.1	69	12	29	26	35	3.01	- 1.70	.64	0	14	9	7	15	nw.	A. Lawrence Rotch.
Boston.	Suffolk.	124	41	52.6	+ 0.3	73	12	34	28	36	2.27	- 1.59	.52	0	11	6	6	14	nw.	U. S. Weather Bureau.
Chestnut Hill.	do.	124	31	50.8	+ 0.1	69	12	27	29	32	3.22	- 0.98	.63	0	14	16	1	14	ne.	Met. Water Board.
Clinton.	Worcester.	370	15	49.6	.....	69	9	27	28	31	4.87	.....	1.91	0	11	14	5	12	....	Do.
Concord.	Middlesex.	139	21	48.2	- 1.1	70	12	21	29	37	3.42	- 0.56	.94	0	12	9	7	15	e.	Fred A. Tower.
Fall River.	Bristol.	200	45	51.8	- 1.4	69	12	34	28	33	2.28	- 2.45	.55	0	13	9	15	7	sw.	C. V. S. Remington.
Fitchburg.	Worcester.	550	28	48.9	- 0.2	72	12	24	30	36	4.04	+ 0.66	1.37	T.	14	14	3	14	w.	Dr. A. P. Mason.
Framingham.	Middlesex.	160	31	50.6	+ 0.4	71	12	24	29	33	3.57	- 1.78	.89	0	12	12	12	12	ne.	Met. Water Board.
Hyannis.	Barnstable.	31	20	51.5	- 2.8	66	22	28	30	47	2.47	- 1.24	.78	0	9	14	8	9	sw.	C. F. Sleeper.
Lawrence.	Essex.	51	27	49.3	- 0.7	71	12	25	29	32	2.93	- 0.92	.74	0	14	7	16	8	nw.	Essex Company.
Lowell.	Middlesex.	100	26	50.8	+ 0.9	70	9	23	29	33	3.42	- 0.25	0	12	8	10	12	....	Props. Locks & Canals.	
Middleboro.	Plymouth.	53	25	49.8	0	72	12	20	29	37	2.57	- 1.42	.57	0	12	8	9	14	nw.	A. R. Gurney.
Monson.	Hampden.	420	27	47.6	- 1.7	68	22	19	29	36	3.71	- 1.32	1.15	0	13	14	7	10	nw.	Dr. G. E. Fuller.
Nantucket.	Nantucket.	15	25	53.6	- 0.9	70	22	37	29	38	2.57	- 0.82	.76	0	12	10	7	14	ne.	U. S. Weather Bureau.
New Bedford.	Bristol.	88	24	52.4	+ 0.4	70	12	34	21	28	2.10	- 1.39	.60	0	7	15	0	16	sw.	City Engineer.
Norfolk.	Norfolk.	244	8	48.6	.....	75	23	15	30	48	4.88	.....	1.14	0	12	13	7	11	w.	Ruby H. Martyn.
Plymouth.	Plymouth.	26	49.6	.....	68	23	31	29	38	4.01	.....	.89	0	11	15	4	12	....	Laura B. Knapp.	
Provincetown.	Barnstable.	40	24	52.0	- 0.6	69	12	32	29	35	2.75	- 1.41	.76	0	8	18	0	13	e.	Gideon Bowley.
Rockport.	Essex.	25	9	50.8	0	67	12	34	29	31	3.19	.....	.65	0	9	13	7	11	nw.	C. F. P. Bearse.
Rutland.	do.	1,160	9	47.9	.....	68	9	27	32	35	5.42	.....	2.19	1.5	17	15	5	11	sw.	State Sanatorium.
South Egremont.	Berkshire.	764	9	44.0	.....	62	12	16	29	33	7.95	.....	3.20	0	11	13	1	17	w.	Roscoe C. Taft.
Turners Falls.	Franklin.	200	20	46.8	- 3.1	66	12	25	29	35	7.58	+ 5.04	2.39	T.	8	11	....	....	Turners Falls Co.	
Westboro.	Worcester.	298	37	51.4	+ 0.2	66	12	29	29	35	3.95	- 0.22	.93	0	11	11	11	11	w.	G. S. Newcomb.
Williamstown.	Berkshire.	711	30	47.7	- 0.4	65	22	23	29	38	5.08	+ 1.94	1.43	0	12	8	10	13	ne.	Williams College.
Worcester.	do.	518	19	49.6	- 1.0	69	16	30												

TABLE 1.—Climatological data for October, 1911. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>New York.</i>																				
Addison.	Steuben.	1,000	21	51.3	-1.1	82	4	20	29	2.91	+ 0.05	0.70	0	12	12	7	12	sw.	Dr. H. R. Ainsworth.	
Albany.	Albany.	97	90	50.6	+ 0.2	70	9	31	29	5.00	+ 2.01	2.31	0	12	15	6	10	s.	U. S. Weather Bureau.	
Alfred.	Allegany.	1,976	16	48.6	+ 1.8	81	11	21	9	38	3.51	+ 0.30	0.77	T.	10	11	14	4	e.	Prof. F. S. Place.
Amsterdam.	Montgomery.	277	7	48.6	—	72	4	23	29	33	5.83	—	1.80	0	11	14	4	13	sw.	Emory Elwood.
Athens.	Greene.	90	9	50.2	—	70	10	24	29	32	6.14	—	1.94	0	10	12	7	12	s.	E. C. Brooks.
Balston Lake.	Saratoga.	400	7	48.0	—	67	10	23	29	34	5.55	—	2.16	0	13	14	4	7	s.	George R. Schaubert.
Binghamton.	Broome.	875	20	49.1	-0.1	75	4	25	29	35	3.37	+ 0.25	0.77	0	13	4	7	20	e.	U. S. Weather Bureau.
Buckville.	Madison.	1,350	14	47.3	-1.0	69	4	21	28	30	3.49	-0.52	0.74	0	13	5	9	17	nw.	L. W. Griswold.
Boyd's Corners.	Putnam.	560	29	—	—	—	—	—	—	7.54	+ 3.37	—	—	—	—	—	—	—	w.	Thomas Manning.
Carmel.	do.	500	19	50.0	-0.9	72	11	22	29	30	7.04	+ 2.97	3.06	0	12	15	4	12	nw.	Do.
Chatham.	Columbia.	470	10	49.7	-0.3	70	10	23	29	34	4.50	+ 1.05	1.46	0	12	14	6	9	s.	Morton R. Tank.
Cooperstown.	Otsego.	1,250	57	46.5	-0.2	66	4	24	29	30	4.95	+ 1.61	1.32	0	12	12	10	9	n.s.	Miss Elizabeth C. Keese.
Corinth.	Saratoga.	542	9	—	—	—	—	—	—	6.83	—	1.92	0	9	—	—	—	—	s.	A. M. Hollister.
Cortland.	Cortland.	1,129	49	—	—	74	4†	25	29	32	4.11	+ 0.22	0.73	0	12	11	6	14	e.	F. G. Baker.
Cutchogue.	Suffolk.	32	12	54.0	-1.2	71	10	32	29	26	5.21	+ 1.79	1.50	0	10	14	6	11	n.w.	William A. Fleet.
De Ruyter.	Madison.	1,300	8	47.6	—	77	4	21	29	38	3.64	—	0.70	T.	13	13	4	14	w.	B. D. Crandall.
Glens Falls.	Warren.	340	20	48.7	-0.6	72	9	23	25†	40	6.69	+ 3.62	2.48	2.0	14	17	2	12	s.	Prof. C. L. Williams.
Gloversville.	Fulton.	580	19	46.1	-1.5	70	4	20	29	34	7.27	+ 4.12	2.00	T.	14	13	6	12	w.	W. L. McLean.
Greenfield Center.	Saratoga.	314	13	48.4	-1.6	70	12	24	28†	33	6.56	+ 3.18	2.50	0	12	17	3	11	e.	S. E. Darrow.
Griffith.	Washington.	425	14	49.6	-0.2	73	11	25	28†	41	5.37	+ 2.39	1.95	—	12	18	8	5	nw.	Homer J. Whitecomb.
Griffin Corners.	Delaware.	2,260	11	47.0	+ 0.6	74	10	12	29	43	4.44	+ 0.68	1.10	0	9	13	2	16	w.	Harold O. Judd.
Haskinville.	Steuben.	—	16	—	—	—	—	—	—	3.48	+ 0.64	0.76	0	10	—	—	—	—	s.	W. G. Collins.
Homer.	Cortland.	—	20	47.6	+ 1.6	76	4	22	29	34	3.37	—	0.58	T.	12	13	3	15	n.w.	Charles C. Mortimer.
Hoosick Falls.	Rensselaer.	410	9	—	—	—	—	—	—	5.03	—	1.80	0	11	14	4	13	se.	Sanford L. Cluett.	
Indian Lake.	Hamilton.	1,705	12	44.2	-1.0	69	4†	14	23	44	3.35	-0.31	1.05	—	10	14	3	14	n.	Lester Sevier.
Jeffersonville.	Sullivan.	1,240	8	47.3	—	74	16	19	29	41	5.11	—	1.48	0	11	14	5	12	w.	Chas. Wilfert, Jr.
Liberty.	do.	2,300	29	46.6	-0.4	70	1	24	27	27	4.99	+ 1.37	1.50	0	9	17	1	13	se.	Dr. H. M. King.
Little Falls.	Herkimer.	924	13	47.7	-1.3	70	4	25	28	29	4.24	+ 0.78	0.90	0	12	18	5	8	w.	O. J. Demster.
Mohonk Lake.	Ulster.	1,245	15	49.4	-0.6	65	5†	30	29†	26	10.51	+ 6.74	3.40	0	9	17	5	9	nw.	A. K. Smiley.
Morehouseville.	Hamilton.	1,697	3	43.8	—	68	4	17	28	35	5.88	—	1.63	3.0	11	20	2	9	w.	Theo. C. Remonda.
Morrisville.	Madison.	1,325	0	47.2	—	74	5	23	28	33	2.62	—	0.66	T.	10	8	10	13	nw.	Prof. I. M. Charlton.
Mount Hope.	Westchester.	200	14	52.5	-0.4	—	—	30	29	32†	8.58	+ 3.87	2.10	0	—	—	—	—	w.	W. A. Cornelius.
Newark Valley.	Tioga.	825	24	—	—	—	—	—	—	4.34	+ 0.65	0.96	0	11	—	—	—	—	n.w.	M. D. Clinton.
New Berlin.	Chenango.	—	4	—	—	—	—	—	—	3.64	—	0.85	0	10	—	—	—	—	s.	Roger Greene.
New Lisbon.	Otsego.	1,234	21	45.2	-0.7	70	10	17	29	40	4.71	+ 1.37	0.92	0	13	9	6	16	sw.	G. A. Yates.
New York City.	New York.	314	86	55.6	+ 0.0	72	4	39	28	23	5.38	+ 1.67	1.82	0	12	8	8	15	w.	U. S. Weather Bureau.
North Creek.	Warren.	1,002	3	46.5	—	69	4	18	30	35	4.14	—	1.80	0	9	18	3	10	w.	W. G. Kenwell.
Northville.	Fulton.	742	9	—	—	—	—	—	—	5.35	—	1.20	T.	9	—	—	—	—	w.	P. C. Picard.
Oneonta.	Otsego.	1,112	17	48.8	-0.7	68	4†	24	29	31	4.05	+ 0.36	1.03	0	15	14	2	15	n.w.	H. W. Lee.
Oxford.	Chenango.	916	46	48.3	+ 1.2	70	4	22	29	34	5.12	+ 1.65	0.98	0	13	11	12	8	s.	J. P. Davis.
Oyster Bay.	assau.	40	7	55.2	—	75	5	36	28	20	5.48	—	1.81	0	8	16	2	13	sw.	Prof. Thos. Colby.
Port Jervis.	Orange.	470	27	50.0	-0.9	72	10	18	29	36	5.89	+ 2.20	1.96	0	13	15	3	13	ne.	Wilbur F. Crane.
Rome.	Oneida.	445	15	48.4	+ 0.0	76	5	21	28	33	4.43	+ 3.00	1.47	0	11	—	—	—	w.	John O'Mara.
Salisbury.	Herkimer.	1,526	14	45.4	-3.0	71	2	20	28	38	6.05	+ 1.78	1.61	0	12	16	7	8	e.	Joseph Ryan.
Scarsdale.	Westchester.	200	7	53.8	—	70	12†	30	29	28	3.87	—	1.77	0	11	13	10	8	ne.	C. H. Wilmarth.
Setauket.	Suffolk.	40	26	54.2	-0.2	70	4	35	29	21	6.13	+ 1.59	1.75	0	10	14	4	13	w.	Selah Strong.
Sherburne.	Chenango.	—	4	—	—	—	—	—	—	3.58	—	0.90	0	7	—	—	—	—	s.	E. B. Collins.
Southampton.	Suffolk.	36	10	53.2	-0.9	67	4†	30	23	33	4.23	+ 0.80	1.31	0	10	15	7	9	nw.	W. L. Jaeger.
Southwest Reservoir.	Putnam.	310	6	—	—	—	—	—	—	6.17	+ 1.83	—	—	—	—	—	—	—	w.	Thomas Manning.
Spier Falls.	Saratoga.	400	10	—	—	72	12	19*	3	40*	7.19	—	2.70	0	13	9	10	12	w.	George E. Fifield.
Trenton Falls.	Oneida.	751	8	—	—	—	—	—	—	4.16	—	1.00	0	10	—	—	—	—	w.	C. W. Young.
Tribeshill.	Montgomery.	268	8	—	—	—	—	—	—	5.30	—	2.00	0	—	—	—	—	—	w.	R. S. Marshall.
Utica.	Oneida.	537	45	—	—	—	—	—	—	3.69	+ 0.22	0.95	0	11	—	—	—	—	w.	W. E. Young.
Wading River.	Suffolk.	112	5	57.3	—	71	5	34	29	25	7.02	—	2.20	0	10	21	3	7	nw.	H. B. Fullerton.
Wappingers Falls.	Dutchess.	110	21	50.4	-1.4	66	5†	27	29	24	5.50	+ 1.64	2.04	0	15	13	9	9	nw.	H. C. Townsend.
Warwick.	Orange.	538	17	—	—	—	—	—	—	5.50	—	1.20	0	13	—	—	—	—	w.	John W. Sly.
Waverly.	Tioga.	824	29	49.7	+ 0.3	80	4	18	29	42	3.73	+ 0.65	0.94	0	17	11	6	14	nw.	J. F. Shoemaker.
Wells.	Hamilton.	1,000	5	45.8	—	71	10	15	29	45	3.97	+ 0.43	1.15	0	12	11	5	15	se.	Vernon E. Dewey.
West Berne.	Albany.	946	12	47.2	-2.4	72	9†	19	29	45	3.97	+ 0.43	1.15	0	12	11	5	7	se.	W. J. Haverty.
West Point.	Orange.	167	62	51.6	-1.6	70	5	30	29	24	3.49	+ 0.47	0.95	0	8	10	14	7	nw.	U. S. Military Academy.
Windham.	Greene.	1,520	11	46.4	-1.8	68	20	19	29	35	3.97	+ 0.43	1.20	0	11	9	13	9	nw.	A. R. Mott.
<i>Pennsylvania.</i>																				
Altoona.	Blair.	1,181	23	54.4	+ 3.0	78	5	30	29	28	3.22	+ .80	1.14	0	8	—	2	16	n.w.	C. W. Billin.
Bethlehem.	Northampton.	260	10	54.0	+ .3	76	8	30	28	45	7.23	+ 4.03	2.83	0	10	13	2	16	w.	Prof. E. C. Roest.
Clearfield.	Clearfield.	1,107	3																	

TABLE 1.—Climatological data for October, 1911. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days or more.	Number of partly cloudy days.	Number of cloudy days.					
<i>New Jersey.</i>																						
Asbury Park.	Monmouth.	22	23	55.8 ^a	+ .2	77	4	31 ^b	30	28	6.28	+ 2.50	1.38	0	11	10	10	n.	B. H. Ober.			
Atlantic City.	Atlantic.	16	38	57.2	- .2	73	4	41	29	22	2.73	- .57	1.43	0	12	12	8	n.	U. S. Weather Bureau.			
Bayonne.	Hudson.	50	21	54.7	- .6	73	4	34	29	27	6.59	+ 2.94	1.45	0	12	12	6	nw.	John H. Eadie.			
Belvidere.	Warren.	289	20	52.8	+ .3	72	10	26 ^c	29	36 ^c	6.54	+ 2.70	2.33	0	12	10	8	13	Samuel J. Hixson.			
Bergen Point.	Hudson.	37	14	54.6	+ .3	72	4	32	29	29	7.03	+ 2.95	1.68	0	11	8	13	10	Dr. William H. Mitchell.			
Boonton.	Morris.	413	21	55.0	- .1	78	4	32	29	27	6.30	+ 2.46	1.39	0	12	10	5	11	Foster Peer.			
Bridgeton.	Cumberland.	30	30	56.3	- .4	80	4	32	29	37	3.05	- .48	1.10	0	10	15	5	11	Henry A. Jorden.			
Burlington.	Burlington.	12	27	—	—	—	—	—	—	—	4.80	+ 1.35	.80	0	11	8	9	14	nw.			
Canton.	Salem.	24	17	—	—	—	—	—	—	—	2.77	- .54	.96	0	11	9	9	13	John H. Maskell.			
Cape May City.	Cape May.	17	27	58.0	+ .4	76	4	38	29	32	2.61	- .69	.96	0	15	9	12	10	U. S. Weather Bureau.			
Charlotteburg.	Passaic.	719	19	50.4 ^a	0.0	73 ^a	16	19 ^a	29	38 ^a	7.18	+ 2.77	1.15	0	11	10	11	nw.	George S. Briggs.			
Chatham.	Morris.	234	9	—	—	—	—	—	—	—	7.05	—	1.30	0	13	—	—	—	M. A. Butler.			
Clayton.	Gloucester.	126	18	55.0	- .1	78	4	32	29	32	2.97	- .54	.80	0	11	10	10	11	William T. Farley.			
College Farm.	Middlesex.	100	16	54.0	+ .2	73	4	28	29	31	6.64	+ 3.12	2.25	0	12	9	9	12	George B. Thrasher.			
Culver's Lake.	Sussex.	848	10	—	—	—	—	—	—	—	8.23	+ 4.58	3.49	0	13	8	8	15	se.			
Dover.	Morris.	600	27	49.2	- 1.5	69	16	23	29	32	3.06	+ 3.06	1.39	0	11	8	10	13	Brice E. Riker.			
Elizabeth.	Union.	33	32	54.4	- .3	72	4 ^f	32 ^a	29	34	5.99	+ 2.17	1.51	0	12	9	8	14	William C. Harris.			
Flemington.	Hunterdon.	187	23	54.2	+ .1	75	10 ^f	31	29	34	6.25	+ 2.80	2.01	0	12	8	11	12	William M. Oliver.			
Haddonfield.	Camden.	75	24	54.8	+ 1.1	77	4	31	29	35	3.34	+ .20	.60	0	12	9	11	11	Hiram E. Deats.			
Hammonton.	Atlantic.	103	13	—	—	—	—	—	—	—	3.37	- .11	1.09	0	11	—	—	—	Charles F. Richardson.			
Highstown.	Mercer.	119	19	54.2	+ .5	75	4	27	29	37	5.44	+ 1.21	1.38	0	11	10	8	13	Orville Bassett.			
Hightwood.	Bergen.	90	—	52.2	—	76	4	24	29	36	7.12	—	2.69	0	11	6	14	n.	Ernst Wenger.			
Indian Mills.	Burlington.	76	22	54.4	0.0	79	4	26	29	40	3.46	- .12	.93	0	10	9	9	12	Charles J. Bates.			
Jersey City.	Hudson.	15	13	54.9	- .7	73	4	35	29	36	6.66	+ 2.91	1.95	0	11	10	9	12	James Armstrong.			
Lakewood.	Ocean.	54	9	53.8	—	75	4	30	29	36	5.67	—	1.25	0	11	10	10	10	Samuel K. Pearson, Jr.			
Lambertville.	Hunterdon.	95	25	53.8	+ .2	72	4 ^f	29	29	31	5.06	+ 1.19	1.50	0	12	10	10	11	Ralph Robertson.			
Leyton.	Sussex.	550	12	49.6	0.0	74	12	18	29	37	6.75	+ 3.42	2.50	0	14	10	8	13	William R. Bowe.			
Little Falls.	Passaic.	175	8	—	—	—	—	—	—	—	6.78	—	1.80	0	12	—	—	—	A. Sweetman.			
Long Branch.	Middlesex.	30	4	56.1	—	76	4	32	29	30	6.96	—	2.01	0	10	12	9	n.	Benjamin E. Bobbitt.			
Mahwah.	Bergen.	312	9	—	—	—	—	—	—	—	6.67	—	2.12	0	13	—	—	—	Charles L. Barker.			
Moorestown.	Burlington.	71	49	55.0	+ .8	78	4	30	29	32	3.76	+ .12	.78	0	12	11	7	13	John C. Beans.			
Newark.	Essex.	140	68	54.6	+ .2	75	16	31	29	30	7.92	+ 4.15	2.32	0	13	8	8	14	Prof. William Wiener.			
New Brunswick.	Middlesex.	61	58	54.2 ^a	- .4	73 ^a	4	28 ^a	29	33 ^a	6.59	+ 3.00	2.25	0	12	10	11	10	William F. Woerner.			
Newton.	Sussex.	678	32	—	—	—	—	—	—	—	3.67	+ 1.96	1.67	0	12	8	10	13	F. Vernon Losse.			
Northfield.	Atlantic.	—	4	—	—	—	—	—	—	—	2.77	—	.72	0	11	—	—	—	William L. Flitck.			
Paterson.	Passaic.	80	40	52.6	- 1.8	72	16	31	29	31	6.39	+ 2.24	1.55	0	12	8	8	11	Heber A. Probert.			
Phillipsburg.	Warren.	363	14	52.8	- .1	73	10 ^f	27	29	33	7.00	+ 3.40	2.21	0	13	8	9	14	D. W. Smith.			
Plainfield.	Union.	190	25	53.6	+ .6	73	16	27	29	36	7.03	+ 3.38	1.78	0	13	7	13	11	John Neagle.			
Pleasantville.	Atlantic.	26	13	—	—	—	—	—	—	—	2.72	- .90	.68	0	11	7	11	n.	Lincoln Van Gilder.			
Pompton Plains.	Morris.	195	9	—	—	—	—	—	—	—	5.94	—	1.21	0	12	—	—	—	M. S. Taylor.			
Somerville.	Somerset.	76	28	53.4	0.0	72	4 ^f	25	29	34	6.46	+ 3.65	1.98	0	12	8	8	15	Peter Hardcastle.			
South Orange.	Essex.	200	41	53.0	+ .1	69	4	31	29	36	6.17	+ 2.30	1.50	0	12	10	9	12	Dr. William J. Chandler.			
Sussex.	Sussex.	442	24	51.6	- .6	75	16	25 ^a	29	30 ^a	5.84	+ 2.49	1.58	0	12	11	5	15	George Dymock.			
Tuckerton.	Ocean.	23	18	53.6	- 1.2	75	4	30	29	34	7.76	- .91	.83	0	12	15	7	9	ne.	Frank R. Austin.		
Woodbine.	Cape May.	43	20	55.2	- .4	78	4	32	29 ^b	33	2.84	- .75	.95	0	10	13	5	13	Prof. H. A. Dodge.			
<i>West Virginia.</i>																						
Bayard.	Grant.	2,500	10	51.0	+ 2.3	75	6	23	25	37	5.05	+ 1.79	1.27	0	13	13	4	14	w.	Solomon Clark.		
Burlington.	Mineral.	875	17	55.1	+ 1.9	83	4	28	25	37	3.95	+ 1.99	1.60	0	8	13	10	8	w.	J. W. Vandiver.		
Franklin.	Pendleton.	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. A. Martin.			
Lost City.	Hardy.	5	53.6	—	—	—	—	—	—	—	30	25	26	4.83	—	1.55	0	15	4	12	w.	B. D. Hindegardner.
Martinsburg.	Berkeley.	435	19	55.0	+ 0.9	83	4	32	29	31	3.27	+ 0.83	1.36	0	10	17	4	10	nw.	G. W. Van Metre, C. E.		
Moorefield.	Hardy.	900	15	57.8	+ 3.6	87	4	31	25	44	5.33	+ 3.34	1.75	0	9	7	16	8	sw.	John C. Fisher.		
Romney ^d .	Hampshire.	824	14	54.4	+ 0.2	82	4	29	25	37	3.49	+ 1.27	1.04	0	7	10	10	7	w.	John C. Linthicum.		
Upper Tract.	Pendleton.	1,230	14	55.3 ^b	+ 0.2	84 ^b	4	27 ^b	25	37 ^b	3.80	+ 1.68	1.00	0	11	6	16	9	w.	J. M. Mallow.		
<i>Maryland.</i>																						
Annapolis.	Anne Arundel.	45	33	60.2	+ 2.7	82	4	43	30	24	2.30	- 1.45	0.78	0	10	15	1	15	s.	U. S. Naval Academy.		
Baltimore.	Baltimore.	115	41	58.3	+ 0.8	78	4	41	29	26	3.31	+ 0.29	1.92	0	12	7	11	13	n.	U. S. Weather Bureau.		
Cambridge.	Dorchester.	25	13	50.8	+ 1.3	85	4	38	32	33	3.91	+ 0.46	1.33	0	7	12	8	9	ne.	T. E. Keenan.		
Cheltenham.	Prince Georges.	230	11	57.9	—	82	4	34	29	32	3.54	—	1.38	0	15	8	9	14	George Hartnell.			
Chestertown.	Kent.	80	26	57.2	+ 1.4	76	5	36	29	24	2.63	- .36	0.83	0	11	14	8	9	s.	M. W. Thomas.		
Chewsville.	Washington.	530	14	54.5	+ 0.2	80	4	30	29	32	2.40	- 0.48	0.93	T	9	11	12	8	se.	D. Paul Oswald.		
Clear Spring.	do.	650	14	53.7	- 0.1	79	17	35	29	37	2.97	+ 0.18	1.31	0	11	—	—	—	W. W. Frantz.			
Coleman.	Kent.	80	13	57.4	—	78	3	36	29	37	2.23	+ 0.21	0.98	0	13	18	0	13	ne.	J. S. Harris.		
College Park.	Prince Georges.	170	21	56.7	+ 1.1	80	4	30	28	35	3.45	+ 0.70	0.98	0	6	18	2	11	nw.	Prof. H. J. Patterson.		
Cumberland.	Allegany.	700	37	54.4 ^a	+ 0.2	76 ^a	4	33 ^a	30	31 ^a	5.44	+ 2.14	1.81	0	10	12 ^a	7	11	nw.	J. W. Frantz.		
Darlington.	Harford.	300	19	54.4 ^a	+ 0.2	76 ^a	4	32	29	32	3.32	+ 0.12	1.46	0	7	16	3	12	nw.	Prof. A. F. Galbreath.		
Denton.	Caroline.	42	16	57.0																		

TABLE 1.—*Climatological data for October, 1911. District No. 1—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.					Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Pervailing wind direction.	
<i>Delaware.</i>																				
Delaware City.....	Newcastle.....	20	9	57.1	.....	78	2	36	29	24	2.86	.....	0.82	0	9	18	2	11	ne.	H. Morton Price.
Dover.....	Kent.....	40	23	57.6	+ 1.4	81	4	33	29	32	2.55	- 0.32	1.13	0	10	14	4	13	nw.	Thos. F. Dunn.
Milford.....	.....do.....	20	27	57.3	- 1.4	79	4	36	29	27	3.32	- 0.12	1.15	0	9	16	3	12	nw.	Chas. J. Holzmueller.
Millsboro.....	Sussex.....	20	19	56.9	+ 0.2	83	4	35	14	38	3.04	- 0.67	1.23	0	7	13	8	10	se.	Rev. L. W. Wells.
Seaford.....	.....do.....	40	18	57.8	+ 1.6	80	4	36	29	27	2.03	- 1.27	0.82	0	7	17	5	9	ne.	E. B. Brown.
<i>District of Columbia.</i>																				
Washington.....	Dist. of Columbia.	112	41	57.2	+ 0.6	80	4	38	26	29	4.07	+ 0.98	1.93	0	11	12	7	12	n.	U. S. Weather Bureau.
<i>Virginia.</i>																				
Culpeper.....	Culpeper.....	450	3	55.8	.....	80	4	33	29	32	3.75	.....	1.73	0	8	10	12	9	nw.	Col. H. C. Burrows.
Dale Enterprise.....	Rockingham.....	1,350	32	56.0	+ 1.1	88	4	27	25	42	3.60	+ 0.78	1.31	0	12	7	12	12	nw.	Rev. L. J. Heatwole.
Eastville.....	Northampton.....	15	1	61.9	+ 1.1	86	4	41	14	36	3.83	+ 0.06	1.82	0	8	12	10	9	nw.	Thos. B. Robertson.
Fredericksburg.....	Spotsylvania.....	100	22	58.0	+ 0.8	82	4	34	29	32	3.66	+ 0.09	1.40	0	11	13	9	9	ne.	S. G. Howison.
Lincoln.....	Loudoun.....	500	10	55.9	- 0.2	78	4	32	25	32	3.99	+ 0.95	1.70	0	8	6	13	12	nw.	Dr. Geo. Roberts.
Onancock.....	Accomack.....	.....	.....	.....	.....	84	4	.....	.....	.....	2.48	.....	0.90	0	6	21	6	4	ne.	Spencer F. Rogers.
Mount Weather.....	Loudoun.....	1,726	7	52.5	+ 1.0	75	4	35	20	30	4.37	+ 1.95	2.13	0	15	8	10	13	.....	U. S. Weather Bureau.
Quantico.....	Prince William.....	16	14	57.0	+ 1.3	82	4	35	30	31	6.60	.....	3.42	0	6	11	9	nw.	Rich., Fdksbg., & Pot. R. R.	
Staunton.....	Augusta.....	1,380	19	56.8	+ 1.1	82	4	35	30	34	5.37	+ 2.29	1.54	0	10	9	12	10	sw.	Ernest Notmugie.
Warsaw.....	Richmond.....	160	19	58.2	+ 0.8	81	4	35	25	32	2.63	- 0.68	1.20	0	8	4	20	7	n.	C. H. Constable.
Woodstock.....	Shenandoah.....	927	15	57.0	+ 1.2	87	4	31	29	39	4.27	+ 1.55	0.90	0	12	17	6	8	w.	Mrs. A. G. Artz.

*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1911. District No. 1, North Atlantic States.*

TABLE 2.—*Daily precipitation for October, 1911. District No. 1—Continued.*

Stations.	Watershed.	Day of month.																													Total.									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
<i>Rhode Island.</i>																																								
Block Island	Coast	.58	.46	.04	.05	.22					T.																							.14	3.94					
Bristol	do	*	.73	.07																															.18	2.66				
Greene	do																																			3.46				
Hope Valley	do	.16	.66	.29																																4.35				
Kingston	do	.32	.95	.18																																5.01				
Narragansett Pier	do	.16	.72	.12																																3.44				
Pawtucket	do	*	.66	.41																																3.00				
Providence	do	.27	.46	.14																																2.79				
Walum Lake	do	.70		.38																																.21	3.70			
<i>Connecticut.</i>																																								
Bridgeport	Coast	.77	.75	.08			T.																													T.	7.01			
Canton	Connecticut	1.45	T.	.24																																		9.58		
Colchester	Coast	*	.90	.28																																		5.82		
Cream Hill	Housatonic	.60	.17	.16																																		5.47		
Danielson	Coast	.60		.44	.05																																3.03			
Falls Village	Housatonic	.83		.30																																				
Hartford	Connecticut	.47	.22	.23																																			.02	
Hawleyville	Housatonic	.40	1.11	.12																																			.02	
Lake Konomoc	Coast		.75																																				.27	
New Haven	do	1.36	.24	.07																																			4.30	
New London	do	.25	.69	.30																																			3.22	
N. Grosvenor Dale	do	.27		.12																																			2.44	
Norwalk	do	1.60		.16	*	.77																																.04		
Southington	do	.05	1.50	.40	T.																																		.80	
South Manchester	Connecticut	*	.49	*	.18																																		4.16	
Storrs	Coast	.07	.78																																				.24	
Voluntown	do	1.32		.25																																			.13	
Wallingford	do																																							.75
Waterbury	Housatonic	*	1.28	.49																																			.27	
West Simsbury	Connecticut	*	1.08		.22																																		.31	
<i>New York.</i>																																								
Addison	Susquehanna	.70	.04	.22	.04	.07	.55																														.30			
Albany	Hudson	.64	.05	.35	T.	.11	.21																														.50			
Alfred	Susquehanna	.65		.04																																			.35	
Amsterdam	Mohawk	.60		.71																																			.83	
Athens	Hudson	.62	.16	.12																																			.14	
Ballston Lake	do	*	.61	.64	*	.64																																	.55	
Binghamton	Susquehanna	.77		T.	.21		.38	.07																													.05			
Blue Ridge	Hudson	.15	*	*	1.28																																		.37	
Bouckville	Susquehanna	.45	.06	.20	.02																																		.35	
Carmel	Hudson	.15	.58	.13																																				.04
Chatham	do	.31	.29	.20																																				.04
Cooperstown	Susquehanna	.64		.41																																				.45
Corinth ||	Hudson	.90		.60	.60																																		.28	
Cortland	Susquehanna	.58		.42	.05																																		.83	
Cutchogue	Coast	.25	1.15	.02																																			.21	
De Ruyter	Susquehanna	.63	.01	.25	.03	.04	.50																														.51			
Glens Falls	do	.46	.29	.60																																			.09	
Gloversville	Mohawk	.53	.11	.92	.10	.32	.58																														.08			
Green ||	Susquehanna	*	.76	.35																																			.25	
Haskinville	do	.43	.17	.50																																			.44	
Homer	do	.53	.06	.33	T.	.25	.20																														.37			
Hoosick Falls ||	Hudson	*	.44	.35	.21	.76																																.08		
Indian Lake	do	.50		1.05	.15	.10																																.33		
Jeffersonville	Delaware	1.00																																					.31	
Knowelhurst	Hudson	.55	.17	.68																																			.59	
Liberty	Delaware	1.10		.17																																			.20	
Little Falls	Mohawk	.37																																					.49	
Mechanicsville ||	Hudson	.33		.58	.04																																	.14		
Mohonk Lake	do	1.55																																					.10	
Morehouseville	Mohawk	.30		1.05	.13																																			

TABLE 2.—*Daily precipitation for October, 1911. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for October, 1911. District No. 1—Continued.*

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1911. District No. 1, North Atlantic States.

Date.	Maine.										Concord, N. H.	Massachusetts.								Provi- dence, R. I.	Connecticut.					
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.			Amherst.		Boston.		Middle- boro.		Nan- tucket.			Cream Hill.		Hartford.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.		
1....	52	37	52	37	56	47	56	41	56	28	57	37	52	36	54	38	57	54	58	53	58	43	60	42	57	42
2....	52	42	53	37	57	41	59	44	54	24	59	40	57	42	56	43	55	48	52	46	57	47	58	35	55	45
3....	49	34	51	30	58	27	55	38	50	24	54	31	59	31	62	36	56	42	59	35	55	44	60	41	59	40
4....	56	39	50	25	56	26	63	44	45	24	56	31	65	37	67	47	68	50	64	36	64	46	68	48	59	44
5....	60	42	54	40	58	46	62	46	52	40	56	42	58	45	60	42	63	49	66	51	65	50	62	47	63	48
6....	46	34	44	31	52	32	52	38	48	31	48	36	48	34	52	38	58	40	57	39	53	47	58	42	54	42
7....	48	36	45	28	51	32	52	37	47	23	54	32	53	34	52	35	48	38	50	42	48	46	46	39	49	37
8....	54	34	51	32	57	25	56	35	52	25	54	27	55	26	62	28	58	37	57	29	56	46	58	35	58	33
9....	59	45	59	45	61	24	67	42	68	38	62	38	67	32	72	36	71	45	68	34	63	48	70	44	66	34
10....	58	38	68	29	66	24	71	42	62	20	67	31	69	33	72	34	63	48	69	32	66	51	67	45	68	45
11....	68	47	71	49	71	36	70	45	71	43	70	40	65	35	62	42	65	51	65	37	60	52	66	48	62	51
12....	55	42	64	44	73	45	71	47	55	35	67	46	70	42	69	41	73	52	72	44	66	53	70	52	63	47
13....	44	37	44	35	66	37	54	40	50	40	50	40	54	39	58	31	57	43	65	39	53	46	58	41	54	29
14....	51	38	52	33	56	33	58	38	54	32	58	33	64	31	60	30	64	43	62	27	59	47	62	39	60	40
15....	59	44	65	39	62	28	60	40	69	34	62	31	62	33	68	37	58	49	66	34	60	49	61	42	59	42
16....	58	43	63	33	65	38	64	40	62	30	68	34	70	42	72	42	60	51	62	52	56	52	60	50	68	36
17....	48	39	53	30	71	33	52	44	52	24	52	42	48	39	54	38	54	51	55	41	56	49	55	48	62	53
18....	49	44	45	37	57	34	52	50	51	34	49	44	52	48	56	50	56	52	59	48	58	53	57	52	65	53
19....	49	47	47	42	42	60	44	53	51	50	42	52	47	55	50	58	53	57	54	59	55	60	55	56	60	55
20....	52	47	50	45	55	45	55	49	50	44	55	48	57	48	57	49	56	51	56	53	54	52	56	55	49	60
21....	53	49	50	44	67	34	53	47	56	44	54	49	53	48	54	48	56	51	56	52	53	54	50	54	50	50
22....	57	52	60	48	62	51	58	53	60	52	60	51	59	51	62	53	66	55	67	53	70	59	65	53	60	50
23....	58	48	60	38	62	51	61	48	63	45	59	38	61	37	63	40	65	51	65	64	74	59	64	47	62	48
24....	58	43	51	29	64	35	60	42	52	24	54	33	58	32	60	29	61	45	65	33	60	49	59	43	56	37
25....	48	37	51	29	58	27	52	36	53	28	53	30	55	28	60	28	54	41	59	30	55	46	59	38	54	31
Mns..	52.4	40.6	52.2	34.7	59.1	34.3	56.9	41.9	55.6b	33.0b	52.3	36.8	57.3	36.9	59.8	38.2	57.3	46.0	60.6	39.1	58.8	48.4	59.8	44.1	58.2	40.2
	New York.										Pennsylvania.								Atlantic City, N. J.							
Date.	New Haven, Conn.		New York.								Pennsylvania.								Wellsville.							
	Addison.		Albany.		Bingham- ton.		Indian Lake.		Little Falls.		New York.		Everett.		Harris- burg.		Philadel- phia.		Seranton.		State Col- lege.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	60	44	52	40	53	45	52	41	52	29	45	38	61	50	70	46	62	46	66	50	55	42	57	43	52	48
2....	59	46	61	47	58	44	54	42	57	35	60	41	61	48	69	42	64	48	68	53	54	41	59	48	57	46
3....	60	41	62	34	55	38	59	33	59	26	55	33	60	48	56	43	62	46	64	47	59	40	61	32	64	52
4....	70	55	82	54	65	51	75	54	69	37	70	44	72	56	78	52	79	57	76	74	72	77	52	79	51	73
5....	65	48	66	43	58	46	54	42	66	36	62	42	68	48	70	49	73	52	71	51	63	44	65	47	71	50
6....	60	43	51	37	48	40	52	39	45	27	48	35	50	46	64	40	62	49	63	48	55	41	60	41	59	46
7....	46	39	52	39	52	37	49	37	47	30	54	32	57	44	73	47	57	46	58	47	48	41	56	44	52	38
8....	58	36	66	29	61	33	58	31	53	24	55	28	59	41	72	35	62	40	61	43	58	33	60	32	64	28
9....	70	42	71	30	70	40	65	32	61	45	62	37	67	44	67	39	66	41	70	48	65	45	70	55	47	
10....	68	47	78	38	69	40	70	38	69	29	69	40	69	57	65	45	69	44	73	52	71	40	67	38	69	50
11....	66	50	60	38	60	47	59	49	62	31	60	47	60	54	67	55	73	57	61	56	63	51	67	55	64	56
12....	69	54	68	47	68	49	62	46	60	46	60	49	68	53	61	48	66	53	69	56	63	49	61	48	65	43
13....	59	43	63	33	58	41	53	36	55	31	53	32	63	46	66	45	62	44	64	47	56	40	62	34	61	35
14....	63	40	72	30	61	38	65	30	66	22	59	32	63	46	64	36	63	41	65	47	68	34	60	35	68	29
15....	63	44	69	48	65	43	55	46	62	27	59	44	62	53	61	48	54	51	57	49	56	49	63	33	62	47
16....	71	47	76	41	67	46	66	45	61	30	65	43	69	53	67	52	72	54	68	49	67	55	72	38	64	53
17....	58	47	64	42	57	42	62	42	55	29	69	44	60	55	58	44	66	54	60	52	60	58	60	40	64	55
18....	63	56	63	51	57	52	58	53	51	46	54	50	63	59	68	56	73	57	68	63	65	61	65	55	61	
19....	63	57	64	49	59	52	60	53	57	45	57	50	65	68	65	42	62	56	58	61	53	61	44	63	55	
20....	60	54	67	50	68	55	63	57	63	48	59	52	61	56	64	50	61	58	61	56	65	63	54	64	50	
21....	56																									

TABLE 3.—*Maximum and minimum temperatures at selected stations for October, 1911. District No. 1—Continued.*

Date.	New Jersey.								Martinsburg, W. Va. §§	Maryland.								Mills- boro, Del.	Washing- ton, D. C.	Virginia.									
	Bridgeton.		Hights- town.		Phillips- burg.		Sussex.			Baltimore.		Darling- ton.		Freder- ick.		Western- port.					Fredericks- burg.		Staunton. §§		Wood- stock.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.				
1....	67	41	63	39	58	42	53	38	64	47	68	50	61	42	64	46	70	47	72	41	66	47	68	50	74	47			
2....	67	56	62	55	61	45	59	47	64	55	68	56	65	55	65	57	66	47	71	57	69	56	72	57	67	56			
3....	68	45	64	38	65	38	64	.....	59	52	64	51	63	45	63	49	59	51	65	53	63	53	62	55	61	50	49	
4....	80	52	75	51	72	53	66	51	83	52	78	60	76	55	76	56	81	53	83	53	80	59	82	57	82	51	87		
5....	73	52	72	54	66	48	66	50	64	54	72	53	72	47	75	53	78	51	76	48	74	52	78	57	72	52	75		
6....	68	42	62	40	57	42	54	37	72	43	65	48	61	45	65	42	69	43	69	41	66	47	68	45	70	43	75	42	
7....	62	45	57	48	52	39	51	40	72	45	65	49	61	46	64	51	75	50	70	50	67	48	70	50	77	48	66	47	
8....	62	40	63	33	62	32	63	39	60	40	60	45	59	40	59	40	58	45	64	44	63	43	60	44	55	45	54	44	
9....	73	36	72	35	69	36	71	33	66	43	71	51	67	38	66	42	68	43	66	39	70	51	67	54	68	46	60	46	
10....	75	42	74	40	73	40	74	38	67	43	68	54	69	44	69	50	63	52	72	45	69	52	68	51	59	52	70	50	
11....	60	54	61	50	61	52	59	44	71	54	72	58	64	55	71	58	74	54	62	52	74	54	73	58	75	55	79	55	
12....	70	56	70	50	68	47	66	48	67	51	68	56	65	54	67	49	69	47	70	53	67	52	68	54	69	50	68	48	
13....	62	45	65	41	64	41	62	32	64	49	65	48	61	46	63	47	70	45	65	42	64	43	65	51	67	44	70	47	
14....	64	38	66	34	67	35	66	34	66	40	63	45	62	37	66	40	65	40	66	35	68	41	61	39	70	44	70	41	
15....	64	44	60	39	52	43	58	37	62	45	62	55	56	45	61	49	72	52	70	42	64	54	71	48	73	43	74	54	
16....	70	52	72	50	73	50	75	44	67	49	72	55	68	52	65	50	67	45	70	52	70	50	64	52	71	51	70	53	
17....	65	46	63	45	64	45	60	41	60	48	64	53	61	47	61	47	63	51	67	47	65	49	65	47	60	52	64	47	
18....	66	58	67	56	63	57	62	56	68	52	71	59	66	57	70	58	62	55	67	47	72	57	70	58	70	53	69	54	
19....	66	58	66	58	62	55	59	52	68	49	67	57	63	56	67	46	73	43	65	58	67	52	70	50	72	40	74	41	
20....	63	59	63	57	63	55	64	55	66	49	65	58	63	57	64	58	72	45	63	59	64	59	65	60	72	40	71	44	
21....	68	57	60	54	56	53	61	51	64	58	63	58	59	55	63	57	68	58	76	60	63	57	66	58	74	50	60	50	
22....	69	58	67	57	65	55	62	51	65	57	68	57	65	56	67	57	62	47	75	67	67	55	69	56	63	55	62	50	
23....	65	50	65	52	65	45	67	49	60	45	63	50	62	47	62	44	64	43	66	45	60	43	64	49	61	37	66	36	
24....	62	40	62	37	62	42	58	39	59	44	61	46	58	43	58	39	61	38	65	41	60	42	59	41	60	37	65	37	
25....	67	39	62	34	62	34	62	32	59	33	61	43	.....	.....	60	34	61	31	62	38	63	39	63	38	61	32	67	32
26....	69	39	67	34	65	38	66	36	62	34	69	43	61	36	63	35	67	32	71	38	66	38	67	38	70	37	71	39	
27....	71	38	65	38	61	40	56	40	65	37	70	45	65	35	65	37	65	34	73	35	69	40	70	38	72	34	75	36	
28....	55	40	57	37	50	32	50	31	48	41	50	42	53	35	54	40	53	40	54	39	59	40	54	39	60	42	62	42	
29....	60	32	58	27	56	27	55	25	57	32	60	41	57	35	56	35	59	35	63	35	61	38	61	34	64	40	65	31	
30....	63	34	61	31	58	33	62	32	59	34	59	42	59	33	58	35	64	32	61	36	62	38	61	37	67	38	68	32	
31....	66	42	65	41	63	42	61	40	65	37	66	51	64	45	64	47	68	45	66	40	67	49	69	43	68	38	69	44	
Mns.	66.5	46.1	64.7	43.7	62.4	43.1	61.7	41.4	64.4	45.5	65.7	50.9	62.9 ^a	46.0 ^a	64.2	46.7	66.6	45.0	67.9	45.9	66.1	48.3	67.1	48.9	68.1	45.5	68.5	45.4	

^{a, b, c, etc.}, indicate respectively 1, 2, 3, etc., days missing from the record.[§] Data are from standard instruments not supplied by the U. S. Weather Bureau.^{§§} Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.